

**METHOD AND APPARATUS FOR CONSTRUCTING A
SPEECH FILTER USING ESTIMATES OF CLEAN
SPEECH AND NOISE**

ABSTRACT OF THE DISCLOSURE

A method and apparatus identify a clean speech signal from a noisy speech signal. To do this, a clean speech value and a noise value are estimated from the noisy speech signal. The clean speech value and the noise value are then used to define a gain on a filter. The noisy speech signal is applied to the filter to produce the clean speech signal. Under some embodiments, the noise value and the clean speech value are used in both the numerator and the denominator of the filter gain, with the numerator being guaranteed to be positive.